

SUSANA MARTINEZ Governor JOHN A. SANCHEZ Lieutenant Governor

NEW MEXICO ENVIRONMENT DEPARTMENT

Harold Runnels Building 1190 South St. Francis Drive (87505) P.O. Box 5469, Santa Fe, NM 87502-5469 Phone (505) 827-0187 Fax (505) 827-0160 www.nmenv.state.nm.us



RYAN FLYNN Cabinet Secretary BUTCH TONGATE Deputy Secretary

Certified Mail - Return Receipt Requested

June 10, 2014

Mr. Billy Ray, Site Manager Rio Algom Mining, LLC/Ambrosia Lake Mine P.O. Box 218 Grants, NM 87020

Re: Rio Algom Mining LLC/Ambrosia Lake Mine; Major; Individual Permit; SIC 1094; NPDES Compliance Evaluation Inspection; NM0020532; June 4, 2014

Dear Mr. Ray:

Enclosed please find a copy of the report and check list for the referenced inspection that the New Mexico Environment Department (NMED) conducted at your facility on behalf of the U.S. Environmental Protection Agency (USEPA). This inspection report will be sent to the USEPA in Dallas for their review. These inspections are used by USEPA to determine compliance with the National Pollutant Discharge Elimination System (NPDES) permitting program in accordance with requirements of the federal Clean Water Act.

Introduction, treatment scheme, and problems noted during this inspection are discussed in the "Further Explanations" section of the inspection report.

You are encouraged to review the inspection report, required to correct any problems noted during the inspection, and advised to modify your operational and/or administrative procedures, as appropriate. If you have comments on or concerns with the basis for the findings in the NMED inspection report, please contact us (see the address below) in writing within 30 days from the date of this letter. Further, you are encouraged to notify in writing both the USEPA and NMED regarding modifications and compliance schedules at the addresses below:

Gladys Gooden-Jackson US Environmental Protection Agency, Region VI Enforcement Branch (6EN-WM) 1445 Ross Avenue Dallas, Texas 75202-2733 Bruce Yurdin
New Mexico Environment Department
Surface Water Quality Bureau
Point Source Regulation Section
P.O. Box 5469
Santa Fe, New Mexico 87502

If you have any questions about this inspection report, please contact Sarah Holcomb at 505-827-2798 or at sarah.holcomb@state.nm.us.

Sincerely,

/s/ Bruce J. Yurdin

Bruce J. Yurdin Program Manager Point Source Regulation Section Surface Water Quality Bureau

> cc: Rashida Bowlin, USEPA (6EN-AS) by e-mail Carol Peters-Wagnon, USEPA (6EN-WM) by e-mail Gladys Gooden-Jackson, USEPA (6EN-WM) by e-mail Brent Larsen, USEPA (6WQ-PP) by e-mail Raquel Douglas, USEPA (6EN-AS) by e-mail NMED District 1, William Chavez by e-mail

Form Approved OMB No. 2040-0003 Approval Expires 7-31-85



	NPDES Compliance Inspection Report													
Section A: National Data System Coding														
1 N 2 5 3 N M 0 0 2 0 5 3 2 11 12 1 4 0 6 0 4 17 18 C 19 S 20 2								î î l l î						
U R A N I U M M I N E								Reserved						
	Section B: Facility Data													
POT Rio	Name and Location of Facility Inspected (For industrial users discharging to POTW, also include POTW name and NPDES permit number) Rio Algom Mining LLC/Ambrosia Lake Mine, McKinley County, NM: From Albuquerque, take I-40 to Grants. In Grants, head West on NM-122, then North on NM-605. Head Northwest on NM-													
509.	Mine entrance is on the left.						Exit Tin 1305 ho			14			Permit Expiration Date 4-30-2016	
	e(s) of On-Site Representative(s)/Title Doug Murray, Deputy Site Manager, E											GP		
Mr.	ne, Address of Responsible Official/Ti Billy Ray, Site Manager, BHP Billiton Box 218, Grants, NM 87020			er			Yes	Co	ntacte No	d *			' 22' 36.71" N 7° 48' 26.63" W	
				Section C: Areas Exectory, M = Marginal,						uated)				
U	Permit	U	Flow Measurem	ent	S	Ope	rations &	Main	itenan	ice		N	CSO/SSO	
U	Records/Reports	S	Self-Monitoring	U Records/Reports S Self-Monitoring Program N Sludge Handling/Disposal N						al	Pollution Prevention			
S Facility Site Review N Compliance Schedu														
	Facility Site Review		Compliance Sch	hedules	N	Pre	etreatmen	nt				N	Multimedia	
S	Facility Site Review Effluent/Receiving Waters	N N	Laboratory		N	Sto	rm Water	r				N N	Multimedia Other:	
	•		Laboratory	hedules ary of Findings/Con	N	Sto	rm Water	r	heets	if neces	ssary)			
	Effluent/Receiving Waters 1. The inspectors arrived on si	N ite at a	Laboratory Section D: Summa approximately 094 dentials and discustal Technician at a	ary of Findings/Com 15 hours and conductsed the purpose of	N nments ted an	Stor	rm Water ich additi nce interv on. An exi	onal si view w it inter	vith M rview	Ir. Dou was co	g Mur	N ray, E	Other: Deputy Site Manager, where they he site with Mr. Murray and Mr.	
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RIO ALGOM MINING LLC/AMBROSIA LAKE MINE	PERMIT NO. NM0020532
SECTION A - PERMIT VERIFICATION	
PERMIT SATISFACTORILY ADDRESSES OBSERVATIONS DETAILS: DETAILS: DETAILS: DETAILS: DETAILS: DETAILS:	EXPLANATION ATTACHED <u>YES</u>)
1. CORRECT NAME AND MAILING ADDRESS OF PERMITTEE	⊠ y □ n □ na
2. NOTIFICATION GIVEN TO EPA/STATE OF NEW DIFFERENT OR INCREASED DISCHARGES	□ y □ n ⊠ na
3. NUMBER AND LOCATION OF DISCHARGE POINTS AS DESCRIBED IN PERMIT	□ y ⊠ n □ na
4. ALL DISCHARGES ARE PERMITTED	□ y ⊠ n □ na
SECTION B - RECORDKEEPING AND REPORTING EVALUATION	
RECORDS AND REPORTS MAINTAINED AS REQUIRED BY PERMIT. DETAILS: DMRs for March and April 2014 were not submitted.	EXPLANATION ATTACHED <u>YES</u>)
1. ANALYTICAL RESULTS CONSISTENT WITH DATA REPORTED ON DMRs.	□y □ N ⊠ NA
2. SAMPLING AND ANALYSES DATA ADEQUATE AND INCLUDE.	□s □ m □ u ⊠ na
a) DATES, TIME(S) AND LOCATION(S) OF SAMPLING	□ Y □ N ⊠ NA
b) NAME OF INDIVIDUAL PERFORMING SAMPLING	□ Y □ N ⊠ NA
c) ANALYTICAL METHODS AND TECHNIQUES.	□ Y □ N ⊠ NA
d) RESULTS OF ANALYSES AND CALIBRATIONS.	□ y □ n ⊠ na
e) DATES AND TIMES OF ANALYSES.	□ Y □ N ⊠ NA
f) NAME OF PERSON(S) PERFORMING ANALYSES.	□ y □ n ⊠ na
3. LABORATORY EQUIPMENT CALIBRATION AND MAINTENANCE RECORDS ADEQUATE.	□s □m □u ⊠na
4. PLANT RECORDS INCLUDE SCHEDULES, DATES OF EQUIPMENT MAINTENANCE AND REPAIR.	⊠s □ m □ u □ NA
5. EFFLUENT LOADINGS CALCULATED USING DAILY EFFLUENT FLOW AND DAILY ANALYTICAL DATA.	□ y □ n ⊠ NA
SECTION C - OPERATIONS AND MAINTENANCE	
TREATMENT FACILITY PROPERLY OPERATED AND MAINTAINED. S M U NA (FURTED DETAILS:	IER EXPLANATION ATTACHED <u>NO</u>)
1. TREATMENT UNITS PROPERLY OPERATED.	□s □m □u ⊠na
2. TREATMENT UNITS PROPERLY MAINTAINED.	□s □m □u ⊠ na
3. STANDBY POWER OR OTHER EQUIVALENT PROVIDED .	□s □m □u ⊠na
4. ADEQUATE ALARM SYSTEM FOR POWER OR EQUIPMENT FAILURES AVAILABLE.	□S □M □U ⊠NA
5. ALL NEEDED TREATMENT UNITS IN SERVICE	□ S □ M □ U ⊠ NA
6. ADEQUATE NUMBER OF QUALIFIED OPERATORS PROVIDED.	□ S □ M □U ⊠ NA
7. SPARE PARTS AND SUPPLIES INVENTORY MAINTAINED.	□s □m □u ⊠na
8. OPERATION AND MAINTENANCE MANUAL AVAILABLE. STANDARD OPERATING PROCEDURES AND SCHEDULES ESTABLISHED. PROCEDURES FOR EMERGENCY TREATMENT CONTROL ESTABLISHED.	□ Y □ N ⊠ NA □ Y □ N ⊠ NA □Y □ N ⊠ NA

RIO ALGOM MINING LLC/AMBROSIA LAKE MINE	PERMIT NO. NM0020532
SECTION C - OPERATIONS AND MAINTENANCE (CONT'D)	
9. HAVE BYPASSES/OVERFLOWS OCCURRED AT THE PLANT OR IN THE COLLECTION SYSTEM IN THE LAST YEAR? IF SO, HAS THE REGULATORY AGENCY BEEN NOTIFIED? HAS CORRECTIVE ACTION BEEN TAKEN TO PREVENT ADDITIONAL BYPASSES/OVERFLOWS?	□ Y ⊠ N □ NA □ Y □ N ⊠ NA □Y □ N ⊠ NA
10.HAVE ANY HYDRAULIC OVERLOADS OCCURRED AT THE TREATMENT PLANT? IF SO, DID PERMIT VIOLATIONS OCCUR AS A RESULT?	□ y ⊠ n □ na □ y □ n ⊠ na
SECTION D - SELF-MONITORING	
PERMITTEE SELF-MONITORING MEETS PERMIT REQUIREMENTS.	(PLANATION ATTACHED <u>NO</u>).
1. SAMPLES TAKEN AT SITE(S) SPECIFIED IN PERMIT.	□ y □ n ⊠ na
2. LOCATIONS ADEQUATE FOR REPRESENTATIVE SAMPLES.	\square Y \square N \boxtimes NA
3. FLOW PROPORTIONED SAMPLES OBTAINED WHEN REQUIRED BY PERMIT.	□ y □ n ⊠ na
4. SAMPLING AND ANALYSES COMPLETED ON PARAMETERS SPECIFIED IN PERMIT.	□ y □ N ⋈ NA
5. SAMPLING AND ANALYSES PERFORMED AT FREQUENCY SPECIFIED IN PERMIT.	□y □ N ⊠ NA
6. SAMPLE COLLECTION PROCEDURES ADEQUATE	□ y □ N ☒ NA
a) SAMPLES REFRIGERATED DURING COMPOSITING.	□ y □ N ☒ NA
b) PROPER PRESERVATION TECHNIQUES USED.	□ y □ n ⊠ na
c) CONTAINERS AND SAMPLE HOLDING TIMES CONFORM TO 40 CFR 136.3.	□ y □ n ⊠ na
7. IF MONITORING AND ANALYSES ARE PERFORMED MORE OFTEN THAN REQUIRED BY PERMIT, ARE THE RESULTS REPORTED IN PERMITTEE'S SELF-MONITORING REPORT?	□ y □ n ⊠ na
SECTION E - FLOW MEASUREMENT	
PERMITTEE FLOW MEASUREMENT MEETS PERMIT REQUIREMENTS. DETAILS:	PLANATION ATTACHED <u>YES</u>)
PRIMARY FLOW MEASUREMENT DEVICE PROPERLY INSTALLED AND MAINTAINED. TYPE OF DEVICE 12-inch Parshall flume	⊠y □ n □ na
2. FLOW MEASURED AT EACH OUTFALL AS REQUIRED.	\square Y \square N \boxtimes NA
3. SECONDARY INSTRUMENTS (TOTALIZERS, RECORDERS, ETC.) PROPERLY OPERATED AND MAINTAINED.	⊠ y □ n □ na
4. CALIBRATION FREQUENCY ADEQUATE. RECORDS MAINTAINED OF CALIBRATION PROCEDURES. CALIBRATION CHECKS DONE TO ASSURE CONTINUED COMPLIANCE.	□y ⊠ n □ na □ y ⊠ n □ na □ y ⊠ n □ na
5. FLOW ENTERING DEVICE WELL DISTRIBUTED ACROSS THE CHANNEL AND FREE OF TURBULENCE.	□ y □ n ⊠ na
6. HEAD MEASURED AT PROPER LOCATION.	⊠y□n □na
7. FLOW MEASUREMENT EQUIPMENT ADEQUATE TO HANDLE EXPECTED RANGE OF FLOW RATES.	⊠ y □ n □ na
SECTION F – LABORATORY	
PERMITTEE LABORATORY PROCEDURES MEET PERMIT REQUIREMENTS.	PLANATION ATTACHED <u>NO</u>
1. EPA APPROVED ANALYTICAL PROCEDURES USED (40 CFR 136.3 FOR LIQUIDS, 503.8(b) FOR SLUDGES)	□ y □ n ⊠ na

RIO ALGOM MINING LLC/AMBROSIA LAKE MINE PERMIT NO.: NM0020532									
SECTION F - LABORATORY (CONT'D)									
2. IF ALTERNATIVE ANALYTICAL PROCEDURES ARE USED, PROPER APPROVAL HAS BEEN OBTAINED									
3. SATISFACTORY CALIBRATION AND MAINTENANCE OF INSTRUMENTS AND EQUIPMENT.									
4. QUALITY CONTROL PROCEDURES ADEQUATE. □ S □ M □ U ☒ NA									
5. DUPLICATE SAMPLES ARE ANALYZED. 100 % OF THE TIME.									
6. SPIKED SAMPLES	6. SPIKED SAMPLES ARE ANALYZED% OF THE TIME.								
7. COMMERCIAL LA	ABORATORY USED.					\square Y \square N \square	× NA		
LAB NAME									
LAB ADDRESS									
PARAMETERS PE	RFORMED								
CECTION C. FE		IC WATERC ORGER	NATERONIC F] s □ m □ u ⊠ NA					
OUTFALL NO.	OIL SHEEN	GREASE	TURBIDITY	VISIBLE FOAM	FLOAT SOL.	COLOR	OTHER		
001	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	OTTEN		
RECEIVING WATER	R OBSERVATIONS	NO FLOW AT THE	TIME OF THIS INSPE	CTION.					
SECTION H - SLU	JDGE DISPOSAL								
SLUDGE DISPOSAI DETAILS:	L MEETS PERMIT REQI	UIREMENTS.	Γ] s □ m □ u ⊠ n.	A (FURTHER EXPLANATION	N ATTACHED <u>NO</u>).			
1. SLUDGE MANAC	GEMENT ADEQUATE T	O MAINTAIN EFFLUEN	NT QUALITY.			□s □м □ u □	× NA		
2. SLUDGE RECOR	DS MAINTAINED AS R	EQUIRED BY 40 CFR 50	03.			□s □м □ u □	× NA		
3. FOR LAND APPL	IED SLUDGE, TYPE OF	FLAND APPLIED TO: _	(e.g., FO	REST, AGRICULTURAL,	PUBLIC CONTACT SITE)			
SECTION I - SAN	MPLING INSPECTION	ON PROCEDURES	(FURTHER EXPLANATI	ON ATTACHED <u>NO</u>).					
1. SAMPLES OBTA	INED THIS INSPECTION	N.				\square Y \boxtimes N	□ NA		
2. TYPE OF SAMPL	E OBTAINED								
GRAB	COM	IPOSITE SAMPLE N	METHOD F	REQUENCY					
3. SAMPLES PRESE	ERVED.					□ y □ n [□ NA		
4. FLOW PROPORT	IONED SAMPLES OBT.	AINED.					□ NA		
5. SAMPLE OBTAIN	NED FROM FACILITY'S	SAMPLING DEVICE.				\square Y \square N [□ NA		
6. SAMPLE REPRES	SENTATIVE OF VOLUM	ME AND MATURE OF D	ISCHARGE.			\square Y \square N [□ NA		
7. SAMPLE SPLIT V	VITH PERMITTEE.					□ y □ n [□ NA		
8. CHAIN-OF-CUST	ODY PROCEDURES EM	MPLOYED.				□ y □ n [□ NA		
9. SAMPLES COLLI	9. SAMPLES COLLECTED IN ACCORDANCE WITH PERMIT.								

Rio Algom Mining Company, LLC; Ambrosia Lake Mine NPDES Permit No. NM0020532 Compliance Evaluation Inspection June 4, 2014

Further Explanations

Introduction

On June 4, 2014, Sarah Holcomb, accompanied by Bruce Yurdin and Daniel Valenta, of the New Mexico Environment Department (NMED), Surface Water Quality Bureau (SWQB) conducted a Compliance Evaluation Inspection (CEI) at the Ambrosia Lake Mine, operated by Rio Algom Mining, LLC, near Grants, McKinley County, New Mexico. The Ambrosia Lake Mine is classified as a major industrial discharger under the federal Clean Water Act, Section 402, of the National Pollutant Discharge Elimination System (NPDES) permit program. It is assigned NPDES permit number NM0020532. The mine is an inactive uranium mine that is undergoing reclamation. The facility is authorized to discharge stormwater and mine drainage runoff, which discharges into the Arroyo del Puerto in Segment 20.6.4.97 NMAC (*State of New Mexico Standards for Interstate and Intrastate Surface Waters*) of the Rio Grande Basin. Designated uses of segment 20.6.4.97 NMAC are livestock watering, wildlife habitat, limited aquatic life and secondary contact.

The NMED performs a certain number of CEIs each year for the U.S. Environmental Protection Agency (USEPA), Region VI. The purpose of this inspection is to provide the USEPA with information to evaluate the Permittee's compliance with the NPDES permit. This inspection report is based on information provided by the Permittee's representatives, observations made by the NMED inspector, and records and reports kept by the Permittee and/or NMED.

The Ambrosia Lake Mine began uranium mining operations in the 1950s under Kerr-McGee. The facility transferred hands from Kerr-McGee to Quivira Mining Company in 1989, and then was purchased by Billiton in 2001. Billiton became BHP Billiton in 2001. Rio Algom Mining, LLC is a subsidiary of BHP Billiton.

Upon arrival at approximately 0945 hours on the day of this inspection, the inspector made introductions, explained the purpose of the inspection and presented her credentials to Mr. Doug Murray, Deputy Site Manager, BHP Billiton. The inspectors and Mr. Murray traveled to the facility, met Mr. Harold Slim, Senior Environmental Technician, and toured the site. At the end of the tour, the inspectors and the permittee's representatives stopped at the onsite office to review maps. The inspectors conducted an exit interview to discuss preliminary findings. Mr. Murray and Mr. Slim were both present, and the meeting concluded at approximately 1305 hours.

<u>Treatment Scheme</u>

At the time of this inspection, the permittee's representative informed the inspectors that BHP Billiton had made the decision to completely close and remediate the mine. They expect this process to take approximately five years.

The mine itself encompasses approximately 370 acres, and during its active phase contained tailings ponds, the mill and various mining buildings, including an office, a maintenance shop and multiple tanks of chemicals and fuel. The on-site mill also served numerous other uranium mining operations in the area, including Church Rock Mine and Homestake Mine. Operations at Ambrosia Lake ceased in 2003. The mine had been maintained in anticipation of start-up, if uranium prices proved sustainable.

The mining process prior to 2003 consisted of an in-situ leaching process, where water and oxygen were pumped into the ore bearing soil layers to encourage the dissolution of the uranium ore into the water. The mineral-laden water was then pumped back to the surface. The uranium was recovered from the water via an ion-exchange process, after which the uranium was dried and processed to produce yellowcake, and then shipped offsite. Liquid waste from the process was disposed into regulated deep waste disposal wells. There is no groundwater remediation occurring at the site, according to the permittee's representative, because the Nuclear Regulatory Commission (NRC), who has jurisdiction over groundwater in this area, approved alternate concentration limits at this site in 2006.

The mill equipment was demolished in 2003 and disposed in Pond #1. (Please see map attached as Appendix A to this report.) The structures that currently remain on site are the machine shop, water treatment facility, ion exchange building and the site offices.

None of the tailings facilities currently contain water. There is one tailings cell (Pond #1) that has been completely capped. The second tailings cell (Pond #2) will contain the remediated soil from the old tailings ponds on the eastern side of Highway 509 (Section 4). The permittee's representative indicated that approximately one foot of contaminated soil (40,000 tons) removed from those ponds would be buried and capped at Pond #2.

Further Explanations

Note: The sections are arranged according to the format of the enclosed EPA Inspection Checklist (Form 3560-3), rather than being ranked in order of importance.

Section A – Permit Verification Evaluation – Overall Rating of "Unsatisfactory"

The cover page of the permit states:

Outfall 001: Latitude 35° 22′ 35″ North, Longitude 107° 48′ 21″ West

Findings for Permit Verification:

Please refer to the map in Appendix A of this report. The outfall for this facility is located approximately one mile downstream of any mine runoff locations. The outfall location does not appear to be representative of the activity at this facility and, additionally, is located within the receiving waterbody.

Additionally, there are a number of old tailings ponds in Section 4, on the eastern side of NM-509 that do not appear to be covered under this permit. The ponds have not been fully remediated, as the permittee's representative indicated that soil remediation in that area would take place during this next phase of the remediation project. The inspectors looked for culverts or other signs of hydrological connection under NM-509 that would lead to Outfall 001, but were unable to locate any evidence that stormwater runoff from the Section 4 ponds would connect to the outfall. The permittee's representative indicated that the site was bermed, however, there was no information what size storm the berms were designed to accommodate. A discharge, if one occurred, from the Section 4 pond area does not appear be authorized under this permit and would need designation as a separate outfall.

<u>Section B – Recordkeeping and Reporting Evaluation – Overall rating of "Unsatisfactory"</u>

The permit states in Part I.C:

Monitoring results shall be reported in accordance with the provisions of Part III.D.4 of the permit. Monitoring results obtained during the previous month shall be summarized and reported on a Discharge Monitoring Report form postmarked no later than the 15^{th} day of the month following the completed reporting period.

The permit states in Part III.D.4:

Monitoring results must be reported to EPA on either the electronic or paper Discharge Monitoring Report (DMR) approved formats. Monitoring results can be submitted electronically in lieu of the paper DMR form. To submit electronically, access the NetDMR website at www.epa.gov/netdmr and contact the R6NetDMR.epa.gov inbox for further instructions. Until you are approved for NetDMR, you must report on the Discharge Monitoring Report (DMR) Form No. 3320-1 in accordance with the "General Instructions" provided on the form. No additional copies are needed if reporting electronically, however, when submitting paper form 3320-1, the permittee shall submit the original DMR signed and certified as required by Part III.D.11 and all other reports required by Part III.D to the EPA at the address below. Duplicate copies of paper DMRs and all other reports shall be submitted to the appropriate State agency (ies) at the following address (es):

<u>EPA</u>:

Compliance Assurance and Enforcement Division Water Enforcement Branch (6EN-W) U.S. Environmental Protection Agency, Region 6 1445 Ross Avenue Dallas, TX 75202-2733

<u>NMED</u>:

Program Manager Surface Water Quality Bureau New Mexico Environment Department P.O. Box 5469 1190 Saint Frances Drive

Findings for Recordkeeping and Reporting:

From a review of the files prior to the inspection, the inspector observed that DMRs had not been received for this facility for a number of months. The facility had been utilizing NetDMR until January of 2013. Paper DMRs had been submitted since that date. Chuck Wentz was the prior signatory authority on the DMRs, but the DMRs submitted since January 2013 had been signed by Linda Broughton, President of Rio Algom Mining LLC, who has since retired.

Paper DMRs were documented as received in the NMED files through February 2014. However, DMRs were missing for March 2014 and April 2014.

The permittee's representative indicated that organizational changes were occurring within BHP Billiton and that the paperwork had not been completed as a result. The permittee's representative indicated that BHP Billiton was aware of the DMR reporting issues, including designation of a new signatory authority, and is working to correct those issues.

Section E – Flow Measurement Vertification – Overall Rating of "Unsatisfactory"

The permit states in Part III.C.6:

Appropriate flow measurement devices and methods consistent with accepted scientific practices shall be selected and used to ensure the accuracy and reliability of measurements of the volume of monitored discharges. The devices shall be installed, calibrated and maintained to insure that the accuracy of the measurements is consistent with the accepted capability of that type of device. Devices selected shall be capable of measuring flows with a maximum deviation of less than 10% from true discharge rates throughout the range of expected discharge volumes.

Findings for Flow Measurement:

During the prior facility inspection, conducted by USEPA on March 21, 2012, the EPA inspector noted that the onsite battery powered Stevens Recorder (a float/mechanical flow meter with a paper strip to record flow data) had not been calibrated. The inspector noted that at the time there had not been any measurable flow in the past year, however, the suggestion was made at that time that the meter should be calibrated using a simulated flow.

This finding is unchanged at the time of this inspection. The same flow monitoring equipment was present at the facility site, but there was no effort made since the previous inspection to calibrate the flow meter to ensure an accurate flow.

NMED/SWQB Official Photograph Log

Photo #1:

Photographer:	Daniel Valenta	Date	6-4-2014	Time	1208 hours	
Location:	Rio Algom/Ambrosia Lake Mine					
Subject:	View upstream of the flow recording equipment at Outfall 001. The outfall is located in Section 5, an					
	area of BHP Billiton's holdings that was never intended to be mined. The outfall is located					
	approximately one mile downstream of the drainage.					



NMED/SWQB Official Photograph Log

Photo #2:

Photographer:	Daniel Valenta	Date	6-4-2014	Time	1210 hours	
Location:	Rio Algom/Ambrosia Lake Mine					
Subject:	Stevens Recorder for flow measurement at Outfall 001. This equipment had not been calibrated.					



NMED/SWQB Official Photograph Log

Photo #3:

Photographer:	Daniel Valenta Date 6-4-2014			Time	1244 hours	
Location:	Rio Algom/Ambrosia Lake Mine					
Subject:	Map of old Section 4 tailings ponds on the east side of Highway 509.					



Appendix A



Rio Algom Mining LLC

July 9, 2014

CERTIFIED MAIL

Ms. Gladys Gooden-Jackson USEPA, Region VI Enforcement Branch (6EN-WM) 1445 Ross Avenue Dallas, Texas 75202-2733

Mr. Bruce Yurdin
New Mexico Environment Department
Surface Water Quality Bureau
Point Source Regulation Section
P.O. Box 5469
Sante Fe, New Mexico 87502

Re: Response to June 4, 2014 NPDES Compliance Evaluation Inspection Report, Permit No. NM0020532; Ambrosia Lake Facility, Rio Algom Mining LLC

Dear Ms. Gooden-Jackson and Mr. Yurdin:

Thank you for providing the referenced inspection report for the Ambrosia Lake facility. Rio Algom Mining LLC (RAML) would like to provide you with an update on our monitoring and reporting program for Permit No. NM0020532, which authorizes the discharge of mine drainage water and stormwater runoff from the facility. Based on your inspection report, we understand that you are concerned about several issues, including the outfall location, the submittal of Discharge Monitoring Reports (DMRs), and calibration of the flow measurement equipment at the outfall.

Currently RAML does not discharge mine drainage water from the facility. In addition, there have been no stormwater discharges from the outfall in several years. We are in the process of preparing the documentation needed to submit a Notice of Intent (NOI) to comply with the Multi-Sector General Permit (MSGP) for stormwater discharges from industrial facilities. We expect to submit a NOI shortly after the Environmental Protection Agency adopts a new MSGP. Once we have been granted coverage under the MSGP, we intend to file for termination of Permit No. NM0020532. We believe that this approach will address concerns regarding the outfall location.

RAML submitted DMRs for March through June 2014 on July 2, 2014. We have initiated the process of filing DMRs electronically. In addition, we have undergone a recent

management change and provided additional staff support that we believe will enable us to meet our future reporting requirements in a timely manner.

Finally, our field team performed maintenance and initial calibration of the flow measurement equipment at the outfall on July 2, 2014. We have scheduled additional work and further calibration of the Parshall flume and Stevens Recorder to occur in the next several weeks.

Please let us know if you have any questions or require further clarification. You may contact me at (520) 208-1014 or Theresa Ballaine at (209)736-4803 or Theresa Ballaine@BHPBilliton.com.

Sincerely,

Anthony Baus Site Manager